

AMENDMENTS TO THE CLAIMS

The listing of claims below replaces all prior versions of claims in the application.

1. (Currently Amended) A self-light-emitting module comprising a light-emitting display panel in which a number of pixels using a self-light-emitting element with an electric polarity are arranged in a matrix manner, and a lighting drive device for selective lighting drive of the self-light-emitting elements on the light-emitting display panel, wherein

a malfunction detection unit, by which malfunction in light emitting caused by defects in the light-emitting display panel, the lighting drive device, or a connecting portion between the light-emitting display panel and the lighting drive device is detected, is further provided;

said malfunction detection unit having a configuration by which a value of a current passing in the non-light-emitting direction of the self-light-emitting element can be measured and in which the value of the current is at least measured after a first predetermined time has passed from the starting point and after a second predetermined time has passed from the starting point such that a defect pattern in the light-emitting display panel, the lighting drive device, or the connecting portion between the light-emitting display panel and the lighting drive device is identified.

2. – 4. (Cancelled)

5. (Currently Amended) The self-light-emitting module according to ~~any one of claims 1 to 4~~claim 1, wherein

the malfunction detection unit has a configuration by which the coordinate of a pixel using the self light-emitting element arranged on the light-emitting display panel can be detected.

6. – 7. (Cancelled)

8. (Currently Amended) The self-light-emitting module according to ~~claim 6, comprising:~~
~~a function by which a defect pattern in the light-emitting display panel, the lighting drive device, or the connecting portion between the light-emitting display panel and the lighting drive device is identified by the value of a current passing in the non light-emitting direction of the self-light-emitting element~~ claim 1 or claim 5, wherein said defect pattern is characterized in any one of the states in which the paths in said lighting drive device and said light-emitting display panel are normal, in which the paths in said lighting drive device and said light-emitting display panel are broken and in which the paths in said lighting drive device and said light-emitting display panel are short circuited.

9. – 13. (Cancelled)

14. (Currently Amended) The self-light-emitting module according to ~~any one of claims 1 to 4~~, having

~~a configuration by which a storage notification unit is driven, based on detection of malfunction in light emitting by the malfunction detection unit~~ claim 5, further comprising a storage notification unit into which a coordinate of a pixel with a malfunction in the light-emitting is written and which performs a notification function on the basis of said written coordinate of the pixel.

15. (Currently Amended) The self-light-emitting module according to ~~claim 5, having~~
~~a configuration by which a storage notification unit is driven, based on detection of malfunction in light emitting by the malfunction detection unit~~ 14, wherein said storage notification unit performs said notification function in case said written coordinate of the pixel with a malfunction in the light-emitting corresponds to a coordinate at a predetermined position.

16. (Currently Amended) The self-light-emitting module according to claim ~~[[6]]~~ 14,
having a configuration by which a said storage notification unit ~~is driven, based on detection of malfunction in light emitting by the malfunction detection unit~~ is stored with said defect patterns such that the notification function is performed on the basis of the stored coordinate of the pixel with the malfunction in the light emitting and said stored defect patterns.

17. (Cancelled)

18. (Currently Amended) A method for verifying a defect state of a self-light-emitting display module comprising a light-emitting display panel in which a number of pixels using a self-light-emitting element with an electric polarity are arranged in a matrix manner, a lighting drive device for selective lighting drive of the respective self-light-emitting elements on the light-emitting display panel, a malfunction detection unit, by which malfunction in light emitting caused by defects in the light-emitting display panel, the lighting drive device, or a connecting portion between the light-emitting display panel and the lighting drive device is detected, wherein

the malfunction detection unit sequentially executes

~~a charge discharge step at which charges accumulated in the self-light-emitting elements arranged on the light-emitting display panel are discharged;~~

a current supply step at which a current is supplied in a non-light-emitting direction of the element concerned to the self-light-emitting under a state in which charges are discharged;

a current-value measure step at which a value of a current passing in a pixel including the self-light-emitting element at least after a first predetermined time has passed from the starting point for supplying the current and a second predetermined time has passed; and

a determination step at which the presence of a defect in the light-emitting display panel, the lighting drive device, or the connecting portion between the light-emitting display panel and the lighting drive device is determined by a value of a current measured at the current-value measure step and the coordinate of the pixel with malfunction in the light emitting is sequentially detected to identify the defect pattern thereof, and

a storage notification unit for performing a notification function on the basis of the presence/absence of defects determined by said determination and said coordinate or the defect patterns is activated according to the defect state determined at the determination step.

19. (Original) The method for verifying a defect state of a self-light-emitting display module according to claim 18, wherein

the storage notification unit is activated according to a position of a defective pixel on the light-emitting display panel when the presence of a defect in a pixel arranged on the light-emitting display panel is identified at the determination step.

20. (Currently Amended) The method for verifying a defect state of a self-light-emitting display module according to claim 18 or 19, wherein

~~the charge discharge step,~~ the current supply step, the current-value measure step, and the determination step are executed for each row or for each column of the self-light-emitting elements arranged in a matrix manner.

21. (New) The self-light-emitting module according to claim 8, further comprising a storage notification unit into which a coordinate of a pixel with a malfunction in the light-emitting is written and which performs a notification function on the basis of said written coordinate of the pixel.